

WHAT IS CLAIMED IS:

1. A system for using Global Positioning System (GPS) location as access
5 criteria for content, the system comprising:

a content source unit configured to produce content signals;

an access criteria unit configured to produce access criteria, the access criteria
specifying at least one pre-determined GPS location where a content receiver is
authorized or not authorized to descramble content signals; and

10 a processor coupled to the content source and the access criteria unit, the
processor being configured to associate access criteria from the access criteria unit
with content signals from the content source unit, the processor being configured to
scramble the content signals.

15 2. The system of Claim 1, further comprising a transmitter coupled to the
processor, the transmitter being configured to transmit the scrambled content signals and
the access criteria to at least one content receiver.

20 3. The system of Claim 1, wherein the transmitter is configured to transmit
signals wirelessly to at least one content receiver.

4. The system of Claim 1, wherein the transmitter comprises an Advanced
Television Systems Committee (ATSC) transmitter.

25 5. The system of Claim 1, wherein the transmitter comprises a Direct
Broadcast Satellite (DBS) dish.

30 6. The system of Claim 1, wherein the transmitter comprises an
Internet connection.

7. The system of Claim 1, wherein the transmitter is configured to transmit
signals via a cable network to at least one content receiver.

8. The system of Claim 7, wherein the transmitter comprises a quadrature amplitude modulation (QAM) modulator.

9. The system of Claim 1, further comprising a media writer coupled to the processor, the media writer being configured to write the scrambled content signals and the access criteria from the processor to at least one media configured to be played by a content player.

10. The system of Claim 1, wherein the content signals comprise a motion picture.

11. The system of Claim 1, wherein the content signals comprise a sporting event.

12. The system of Claim 1, wherein the content signals comprise a concert event.

13. The system of Claim 1, wherein the access criteria further comprise a time period when a content receiver is authorized to descramble the content signal.

14. A content processing device comprising:
a descrambler, the descrambler being configured to descramble scrambled content signals;

a means for autonomously determining location;

a processor coupled to the means for autonomously determining location and the descrambling module, the processor being configured to compare the location determined by the means for autonomously determining location with pre-determined access criteria, wherein if the location determined by the means for autonomously determining location meets the access criteria, then the processor allows the descrambler to descramble content signals, and if the location determined by the means for autonomously determining location does not meet the access criteria, then the processor prevents the descrambler from descrambling content signals.

15. The content processing device of Claim 14, wherein the means for autonomously determining location comprises a Global Positioning System (GPS) receiver configured to receive a plurality of GPS signals from a plurality of GPS satellites, the GPS receiver configured to determine a location of the GPS receiver based on the GPS signals.

16. The content processing device of Claim 14, wherein the means for autonomously determining location comprises a cellular signal receiver.

17. The content processing device of Claim 14, further comprising a receiver coupled to the descrambler, the receiver being configured to receive scrambled content signals from at least one content provider.

18. The content processing device of Claim 14, further comprising a media reader coupled to the descrambler, the media reader being configured to read scrambled content from a media.

19. The content processing device of Claim 14, wherein the access criteria are delivered with the content signals from the content provider.

20. The content processing device of Claim 14, wherein the access criteria are delivered from the content provider independently of the content signals.

21. The content processing device of Claim 14, wherein the access criteria are stored in the content processing device during manufacturing.

22. The content processing device of Claim 14, wherein the access criteria specify at least one location where at least one content processing device is authorized to descramble content signals.

23. The content processing device of Claim 14, wherein the access criteria specify at least one location where at least one content processing device is not authorized to descramble content signals.

24. The content processing device of Claim 14, wherein the access criteria specify at least one location where at least one content processing device is authorized to descramble content signals and at least one location where at least one content processing
5 device is not authorized to descramble content signals.

25. The content processing device of Claim 14, wherein the access criteria further comprise a time period when the content processing device is authorized to descramble the content signal.

26. The content processing device of Claim 14, wherein the content processing device comprises a set-top box.

27. The content processing device of Claim 14, wherein the descrambler
15 comprises a conditional access module, the conditional access module comprising a conditional access descrambler and a copy protection scrambler.

28. The content processing device of Claim 14, wherein the content processing device is configured to transmit descrambled content signals to a display unit configured
20 to display the descrambled content signals.

29. The content processing device of Claim 14, further comprising:
a receiver coupled to the descrambler, the receiver being configured to receive scrambled content signals from at least one content provider; and
25 a demodulator coupled to the receiver, the demodulator being configured to demodulate the content signals received by the receiver.

30. The content processing device of Claim 29, further comprising a storage device to store the scrambled content signals prior to descrambling.

31. The content processing device of Claim 29, wherein the content signals are used to drive a projector.

32. The content processing device of Claim 31, wherein the projector is configured to be used for Digital Cinema in a movie theater.

33. The content processing device of Claim 29, wherein the content signals are
5 used to drive a display in a public place.

34. The content processing device of Claim 14, wherein the means for autonomously determining location comprises a Global Positioning System (GPS) receiver, and further comprising a secure source of time coupled to the processor, the
10 secure source of time being used to verify an authenticity of a GPS signal received by the GPS receiver.

35. The content processing device of Claim 14, wherein the means for autonomously determining location is packaged in a portable module.
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36. The content processing device of Claim 35, wherein the portable module is packaged as a PCMCIA type 2 form factor.

37. The content processing device of Claim 35, wherein the portable module
20 comprises a Global Positioning System (GPS) receiver and a secure source of time that is used to verify an authenticity of a GPS signal received by the GPS receiver.

38. The content processing device of Claim 14, wherein the descrambler comprises a conditional access descrambler and a copy protection scrambler.
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39. The content processing device of Claim 14, further comprising a decoder coupled to the descrambler, the decoder being configured to decode descrambled content signals.

30 40. The content processing device of Claim 14, wherein the GPS receiver is further configured to send a cryptographic signature with the determined location to the processor, the processor being configured to check the cryptographic signature to verify an authentic location determined by the GPS receiver.

41. The content processing device of Claim 40, wherein the GPS receiver comprises an anti-tamper security perimeter.

5 42. The content processing device of Claim 40, wherein the cryptographic signature uses public key cryptography.

43. The content processing device of Claim 40, wherein the cryptographic signature uses secret key cryptography.

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44. The content processing device of Claim 40, wherein the cryptographic signature is a function of a random number generated and delivered by the processor.

15 45. A method of authenticating the location of a content processing device, the method comprising:

associating access criteria with content signals, the access criteria comprising at least one pre-determined Global Positioning System (GPS) location where a content processing device is authorized to decode content signals;

20 coding the content signals to prevent unauthorized content processing devices from accessing the content signals; and

delivering the content signals with the access criteria to at least one content processing device.

25 46. The method of Claim 45, wherein associating access criteria with content signals comprises combining access criteria with content signals.

47. The method of Claim 45, wherein the access criteria further comprises a time period when a content processing device is authorized to decode the content signal.

30 48. The method of Claim 45, wherein delivering the content signals with the access criteria comprises wireless transmission.

49. The method of Claim 45, wherein delivering the content signals with the access criteria comprises transmission via a cable network.

50. A method of authenticating the location of a content processing device, the method comprising:

receiving a plurality of Global Positioning System (GPS) signals from a plurality of GPS satellites at a content receiver;

determining a location of the content processing device based on the GPS signals; and

comparing the location based on the GPS signals with pre-determined access criteria, wherein (a) if the location based on the GPS signals meets the access criteria, then descrambling a set of content signals, (b) if the location based on the GPS signals does not meet the access criteria, then preventing the content signals from being descrambled.

51. The method of Claim 50, further comprising receiving scrambled content signals from a content provider at the content processing device.

52. The method of Claim 50, further comprising reading scrambled content from a media at the content processing device.

53. The method of Claim 50, further comprising comparing a time when the GPS signals were received with a pre-determined access time criteria, wherein (a) if the time when the GPS signals were received meets the access time criteria, then descrambling the content signals, (b) if the time when the GPS signals were received does not meet the access time criteria, then preventing the content signals from being descrambled.

54. A conditional access device configured to be coupled to a content processing device, the conditional access device comprising:

a content descrambler configured to descramble scrambled content signals; and

a means of autonomously determining a location of the descrambler.

55. The device of Claim 54, wherein the means of autonomously determining a location comprises a Global Positioning System (GPS) receiver that uses GPS signals to determine a location.

5 56. The device of Claim 54, wherein the means of autonomously determining a location comprises a cellular signal receiver.

57. The device of Claim 54, wherein the means of autonomously determining a location comprises a security perimeter.

10 58. The device of Claim 57, wherein the device uses secret key cryptography to communicate outside the security perimeter.

15 59. The device of Claim 57, wherein the device uses public key cryptography to communicate outside the security perimeter.

60. The device of Claim 57, wherein the device is configured to use a secure time source to detect and discard false GPS signals.

20 61. The device of Claim 57, wherein the device interfaces with a cryptographic CPU which has access to a secure time to detect and discard false GPS signals.